#### PATENT COOPERATION TREATY

#### **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FOUR18884PCT	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/US2005/010268	International filing date (day/month/year) 29 March 2005 (29.03.2005)	Priority date (day/month/year) 29 March 2004 (29.03.2004)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant FOURQUREAN, George, E					

1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	2. This REPORT consists of a total of 4 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
		,				
3.	This report contains indications	relating to the following items:				
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).					
		Date of issuance of this report 04 October 2006 (04.10.2006)				

Authorized officer

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Dorothée Mülhausen

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer
David M. Fenstermacher

Telephone No. 571-272-5350

From the		:	PATENT COOPE	RATION TRE	ATY	REC'D	07	MAR	2006
	IONAL SEARCE	ING AUTH	ORITY			MIDO			PCT
To: TODD E. ALBANESI CRUTSINGER & BOOTH, LLC 1601 ELM STREET, STE. 1950 DALLAS, TX 75201-4744			WR INTERNATIO	PC					
				INTERNATIO	JINAL SEAK	CITIIVO	, AO	111010	
				(PCT Rule 43bis.1)					
				Date of mailing U 2 MAR 2006					
	's or agent's file r	eference		FOR FURTHER	ACTION See paragraph 2	2 below			
FOUR188	84PCT nal application No	).	International filing date	(day/month/year)	Priority date (	day/mont	h/year	•)	
			29 March 2005 (29.03.2		29 March 200	4 (29.03.	2004)		
PCT/US05	nal Patent Classifi	cation (IPC)	or both national classification	tion and IPC	1 ->				
	05G 1/14 and US								
Applicant									
FOURQU	REAN, GEORGI	3 E.							
1. This o	pinion contains i	ndications rel	ating to the following iten	าร:					
	Box No. I	Basis of the	opinion						
	Box No. II	Priority							
	Box No. III	Non-establi	shment of opinion with re	egard to novelty, inve	ntive step and in	dustrial a	pplica	bility	
	Box No. IV Lack of unity of invention								
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI	Certain doc	uments cited						
	Box No. VII Certain defects in the international application								
Box No. VIII Certain observations on the international application									
2. FUR	THER ACTIO	N							
If a d	lemand for international Prelimina	ational prelin ary Examinir	ninary examination is ma ig Authority ("IPEA") e the IPEA and the chosen onal Searching Authority	xcept that this does IPEA has notified the	not apply who he International	eie uie a	ibbiica	1111 CHOO:	263 an
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220.						to the nailing			
3. For further details, see notes to Form PCT/ISA/220.									

Date of completion of this opinion 03 February 2006 (03.02.2006)

Name and mailing address of the ISA/ US

Mail Stop PCT, Atm: ISA/US

Commissioner for Patents
P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.	
PCT/US05/10268	

Box No. I Basis of this opinion					
1. With regard to the language, this opinion has been established on the basis of:					
the international application in the language in which it was filed					
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a. type of material					
a sequence listing					
table(s) related to the sequence listing					
b. format of material					
оп рарег					
in electronic form					
c. time of filing/furnishing					
contained in the international application as filed.					
filed together with the international application in electronic form.					
furnished subsequently to this Authority for the purposes of search.					
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additional comments:					

International application No. PCT/US05/10268

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or indus applicability; citations and explanations supporting such statement  1. Statement  Novelty (N)  Claims 1-36  Claims NONE  Inventive step (IS)  Claims 1-36  Claims NONE  Industrial applicability (IA)  Claims 1-36  Claims NONE  Claims 1-36  Claims NONE  2. Citations and explanations:  Claims 1-36 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a rota motion drive piston having a planetary which comprises a generally cylindrical opening adapted to be operatively position plurality of bearings; and a follower connector, wherein the follower connector is adapted to be part of an operable conne the planetary and the piston, as claimed in claims 1-26, and 36.  A fluid pump as claimed in claim 27 having a pump body defining a slot adapted to slidingly receive the bushin securely retain the bushing in the piston bore of the pump body.  A discharge valve assembly, as claimed in claim 30, having a washer having a groove formed therein, wherein positioned to engage the rim of the poopet valve, and an O-ring positioned adjacent the groove of the washer, whereby the O-ring are adapted to land on a corresponding rim of a discharge port of the fluid pump.  Claims 1-36  Claims NONE  Claims 1-36  Claims 1-3	
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Claims NONE  2. Citations and explanations:  Claims 1-36 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a rotate motion drive piston having a planetary which comprises a generally cylindrical opening adapted to be operatively positionally of bearings; and a follower connector, wherein the follower connector is adapted to be part of an operable connector the planetary and the piston, as claimed in claims 1-26, and 36.  A fluid pump as claimed in claim 27 having a pump body defining a slot adapted to slidingly receive the bushing securely retain the bushing in the piston bore of the pump body.  A discharge valve assembly, as claimed in claim 30, having a washer having a groove formed therein, wherein positioned to engage the rim of the poppet valve, and an O-ring positioned adjacent the groove of the washer, whereby the O-ring are adapted to land on a corresponding rim of a discharge port of the fluid pump.  Claims 1-36 the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claims.	NO
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	ned can be

#### PATENT COOPERATION TREATY

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,	From the INTERNATIONAL SEARCHING AUTHORITY
	To: TODD E. ALBANESI
	CRUTSINGER & BOOTH, LLC 1601 ELM STREET, STE. 1950
	DALLAS TV 75201-4744

TO: TODD E. ALBANESI CRUTSINGER & BOOTH, LLC 1601 ELM STREET, STE. 1950 DALLAS, TX 75201-4744				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
				(PCT Rule 43bis.1)		
				Date of mailing U 2 MAR 2000		
	s or agent's file r	eference		FOR FURTHER ACTION See paragraph 2 below		
FOUR188	84PCT nal application No	Inte	rnational filing date	e (day/month/year)   Priority date (day/month/year)		
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PCT/US05	5/10268	29 I	March 2005 (29.03.2 h national classificat	ion and IPC	29 March 2004 (29.03.2004)	
Internation	iai Patent Ciassin	cation (IFC) or bot	n national classificat	ion and ir C		
		CI.: 74/594.3, 5791	Ξ, 594			
Applicant	REAN, GEORGI	7 17				
FOORQU	KEAN, GEORGI	3 D.				
1. This c	pinion contains i	ndications relating	to the following item	ns:		
$\boxtimes$	Box No. I	Basis of the opin	ion			
	Box No. II	Priority				
Box No. III Non-establishment of opinion with re				gard to novelty, inve	ntive step and industrial applicability	
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Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
	Box No. VIII Certain observations on the international application					
2. FUR	THER ACTIO	N				
Intern Autho	ational Prelimina	ary Examining Au his one to be the IP	thority ("IPEA") ex EA and the chosen	cept that this does	be considered to be a written opinion of the not apply where the applicant chooses an le International Bureau under Rule 66.1 bis(b) cred.	
IPEA	a written reply to	gether, where appr	ropriate, with amend	ments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.	
For further options, see Form PCT/ISA/220.						
3. For fu	rther details, see	notes to Form PCT	/ISA/220.			
Name and	mailing address	of the ISA/ US	Date of comple	tion of this opinion	Authorized officer	
ו	Mail Stop PCT, Attr Commissioner for P	n: ISA/US		06 (03.02.2006)	David M. Fenstermacher	
1	P.O. Box 1450 Alexandria, Virginia				Telephone No. 571-272-5350	

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.	
PCT/US05/10268	

Box No. I Basis of this opinion					
. With regard to the language, this opinion has been established on the basis of:					
the international application in the language in which it was filed					
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).					
<ol><li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</li></ol>					
a. type of material					
a sequence listing					
table(s) related to the sequence listing					
b. format of material					
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c. time of filing/furnishing					
contained in the international application as filed.					
filed together with the international application in electronic form.					
furnished subsequently to this Authority for the purposes of search.					
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additional comments:					

International application No. PCT/US05/10268

Box No. V Reasoned statement under Rule applicability; citations and expla	43 <i>bis</i> .1(a)(i) anations supp	with regard to novelty, inventive orting such statement	step or industrial
1. Statement			
	Claime	1-36	YES
Novelty (N)		NONE	
Inventive step (IS)		1-36	
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-36	YES
maunial applications (it is		NONE	310
2. Citations and explanations:  Claims 1-36 meet the criteria set out in PCT Article motion drive piston having a planetary which comp plurality of bearings; and a follower connector, whe the planetary and the piston, as claimed in claims 1-  A fluid pump as claimed in claim 27 havi securely retain the bushing in the piston bore of the  A discharge valve assembly, as claimed in positioned to engage the rim of the poppet valve, are the O-ring are adapted to land on a corresponding reclaims 1-36 the criteria set out in PCT Article 33(4) made or used in industry.	rises a generally crein the followed-26, and 36.  Ing a pump body pump body.  In claim 30, havind an O-ring position of a discharge.	regimerical opening adapted to be open reconnector is adapted to be part of an defining a slot adapted to slidingly rec ing a washer having a groove formed the itioned adjacent the groove of the wash e port of the fluid pump.	ceive the bushing retainer to the erein, wherein the washer is ner, whereby the washer and